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UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF AGRICULTURAL ENGINEERING

<sup>3</sup> BIBLIOGRAPHY ON  
NEW BUILDING MATERIALS

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Bureau of Agricultural Engineering

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Anonymous. Aluminaire; a new departure in residential design and construction. American Builder and Building Age. v.51. p.60-61. June 1931.

----- Aluminium as heat insulating material. Chemical Age. v.27. p.191-192. August 27, 1932.

----- Armormy, metal-covered plywood. Railway Age. v.96. p.809. June 2, 1934.

----- Beauty-economy-service; modern building materials provide quality in modern homes. American Builder and Building Age. v.51. p.77-79. July 1931.

----- Brick slabs developing as newest products for veneering work. Brick and Clay Record. v.85. p.83-86. September 1934.

----- Brick wall within reach of every pocket book; brickote. Brick and Clay Record. v.78. p.634-637. June 16, 1931. Discussion. v.79. p.15. July 14, 1931.

----- Build and remodel now; a survey of standard materials and latest developments in the building art. Literary Digest. v.112. p.28-47+ February 13, 1932.

----- Build anew and build with information; quick reference directory of building materials and their use in modern structures. Literary Digest. v.108. p.23-53. February 7, 1931.

----- Building material developments to be chemical society topic. Engineering News Record. v.114. p.571. April 18, 1935.

----- Compound lumber units offer prefabricated house solution. American Builder and Building Age. v.56. p.46-47. October 1934.

----- Development of novel building materials. Industrial and Engineering Chemistry. News edition. v.12. p.143. April 20, 1934.

----- Exhibition in print of new products and designs; items for builders, architects and dealers at century of progress exposition. American Builder and Building Age. v.55. p.54-65. June 1933.

----- Fire! Fire! Don't worry, it's a clay tile house. Brick and Clay Record. v.79. p.204+ September 8, 1931.

----- Forest service experiments with plywood panel house. American Builder and Building Age. v.57. p.34-35. May 1935.

Anonymous. Glass as an architectural medium in 9 small modern houses at a century of progress, 1933-34. Architectural Forum. v.60. Advertising supplement, p.40-100. February 1934.

----- Glass block, new building material. Scientific American. v.149. p.128. September 1933.

----- House built of preswood. Scientific American. v.148. p.38-39. January 1933.

----- House of glass and steel; Pierre Chareau, architect. Architectural Forum. v.58. p.302-304. April 1933.

----- Larger units cut costs; five-ply fir panels in large sizes used as sheathing, rough and finish flooring, and wall lining. American Builder and Building Age. v.50. p.84-87. February 1931.

----- Lead alloys for building applications. Engineering. v.136. p.127-128. August 4, 1933.

----- Masonite house. Architectural Forum. v.59. p.56. July 1933.

----- Nail-less wall units cut home building costs; ply-wood panels. American Builder and Building Age. v.56. p.54-55. April 1934.

----- New constructions developed for standardizing homes. Heating and Ventilating. v.30. p.38. May 1933.

----- New joist and plywood floor panel tested. American Builder and Building Age. v.56. p.41. January 1934.

----- New materials and remodeling. American Builder and Building Age. v.51. p.79-81. September 1931.

----- New products. Architecture. v.69. p.65-90. February 1934.

----- New products; wood textiles, paper. Architectural record. v.73. p.295-306. April 1933. Waterproof plywood. laminating with phenolic resins; wood-metal plies; elastic glue; concrete forms; fireproof wood; flexwood; new adhesive; new wood products; modern connectors for timber construction; new textiles in building field, safety cloth, fireproof cotton fabrics, Revolite, flexible waterproof cloth.

----- New products of 1932. Architecture. v.66. p.125-153. September 1932.

----- Over the counter; homes of plywood panels. American Builder and Building Age. v.56. p.70-73. March 1934.

Anonymous. Panels made of plied steel and wood find new uses; plymetl Steel. v.90. p.25-26. May 30, 1932.

----- Panels of metals bonded to wood find wide application. Steel. v.94. p.42. March 19, 1934.

----- Plastics; with table showing architectural use. Architectural Record. v.69. p.321-322. April 1931.

----- Porcelain enamel houses. Literary Digest. v.113. p.24. May 14, 1932.

----- Process for the disintegration of wood. Journal of the Franklin Institute. v.212. p.371-376. September 1931.

----- Rostone, a new building material. Rock Products. v.36. p.44-46. May 1933.

----- Rostone, a synthetic stone. Architecture and Building. v.62. p.355-356. December 1930.

----- Rostonè, a new processed stone. Architectural Record. v.73. Supplement no. 28. May 1933.

----- Synthetic houses; house that chemistry built at the century of progress exposition. Scientific American. v.149. p.180. October 1933.

----- Vinylite house, an experimental research project. Architectural Record. v.75. p.1-2, 36. January 1934.

----- World's first porcelain house. Cleveland, Ohio. Popular Science. v.121. p.44. November 1932.

----- Zonolite; new building product developed largely by Canadian initiative. Contract Record. v.45, no.3. p.57-58. January 21, 1931.

Anderson, M.L. Glass in modern buildings. Royal Institute of British Architecture. Journal. v.40. Third series no.7. p.249-276. February 11, 1933. Methods of manufacture; types of glass for special purposes; physical properties; methods of decorating glass; methods of glazing.

Belani, E. Artificial materials "Steinholz" and "Dormas". Kunststoffe v.23. p.255-258. 1933. Various formulas used in making these products (artificial sheet rock) are explained and illustrated by means of examples and the advantages of including micro-asbestos as a filler component emphasized.

Bennett, R.E. Fireproofing insulating building material from rock and wood. Rock Products. v.33, no.22. p.63-64. October 25, 1930. Thermax is building material, in board or slab form, that is virtually a "fireproofing insulating lumber" but embodying many other desirable qualities, namely light weight, structurally strong, vermin-proof, sound-deadening, has acoustic value, is non-absorbent, odorless and permanent.

Boehm, R.M. Manufacture of insulation board and presdwood by the masonite process. Journal of Chemical Education. v.7. p.2387-2390. October 1930.

Buchanan, A.E. Unbreakable glass: Sekurit. Scientific American. v.147. p.292. November 1932.

----- jr. Synthetic houses; vinylite as building material. Scientific American. v. 149. p.180. October 1933.

Burchard, J. Resoarch findings of Bomis industries, inc. Architectural Record. v.75. p.3-8. January 1934.

----- J.E. Materials for mass production. Architectural Forum. v.55. p.508-510. October 1931.

Cathcart, D.B. Modernized building matorials; terra cotta, cement and gypsum. Architectural Forum. v.55. p.241-246. August 1931.

Craemer, H. Monolithischer glaseisenbeton. (Monolithic glass and reinforced concrete construction.) Beton und Eisen. v.29. p.109-113. March 20, 1930. New system known as Rotalith, consists of cylindrical glass elements set in flat or curved reinforced-concrete slabs; bond between glass and concrete; possible use of system in large-scale construction.

----- Versuche mit Rotalith-glaseisenbeton. (Testing of Rotalith glass concrete) Beton und Eisen. v.30. p.68-70. February 20, 1931. Results of Darmstadt institute of technology tests of slabs made up of cup-like glass elements set in concrete.

Davison, R.L. Approach to the development of new building materials. Real Estate Record and Builders' Guide. p.4-5. July 28, 1934.

Douglas, L.H. Modern building materials and the thermal insulation of buildings. Engineering. v.138. p.513-515. November 9, 1934.

Everhard, E. Architectural uses of aluminum. American Architecture. v.137. p.48-50+ May 1930.

Fischer, M. New building materials. House Beautiful. v.69. p.164+ February 1931.

Fronch, G. Building board for homes. Pulp and Paper Magazine of Canada. v.31. p.443-445. April 2, 1931.

Gibson, A.G. Insulating board from straw. Industrial and Engineering Chemistry. v.22. p.223-226. March 1930.

Gill, H. Architectural uses of copper alloys. American Architecture. v.138. p.52-55+. September 1930.

Goodrich, E.P. House of the future. Building Age. v.52. p.34-35+. September 1930.

Gray, G.W. Bricks without straw; new materials promise greater strength, economy and beauty. World's work. v.60. p.29-33. February 1931.

Grayson, R.V. New cotton uses. Manufacturers Record. v.104. p.32, 64. April 1935.

Grogg, J.L. Properties of metal foil as insulating material. Refrigerating Engineering. v.23. p.279-283, 288, 290, 304. May 1932. Theoretical considerations of heat transfer and use of metal foil as insulating material.

Grossman, H. "Eternit-Durasbost" and its use in the building industry. Zement. v.20. p.221-224. 1931.

Holme, J.B. Recent developments in architectural ceramics. American Ceramic Society. Bulletin. v.12. p.281-283. September 1933.

Horrick, G.S. White metal used in architecture. Iron Age. v.124. p.1361-1363. November 21, 1929.

Hill, P.S. Plywood as a building material. Mechanical Engineering. v.55. p.355-357+. June 1933.

Hirsch, H. New refractory, Siemensit. Tonidustrie-Zeitung. v.56. p.1147-1149. 1932.

Hobbs, D.B. Aluminum in architecture. Architectural Forum. v.53. p.255-259. August 1930.

Howe, H.E. Research is preparing new wonders. American Architecture. v.141. p.62-63+. May 1932.

Killam, C.W. Modern design as influenced by modern materials. Architectural Forum. v.53. p.39-42. July 1930.

Kocher, A.L. and Frey, A. New materials and improved construction methods. Architectural Record. v.73. p.281-293. April 1933.

Krause, H.F. Synthoporit - a new light-weight building material. Zement. v.20. p.372-374. 1931. Material serves well as sound and heat insulation.

Lathrop, E.C. Celotex and cane-sugar industries. Industrial and Engineering Chemistry. v.22. p.449-460. 1930.

----- Utilization of bagasse in the manufacture of celotex. Journal of Chemical Education. v.7. p.2391-2392. 1930.

Lefebvre, V. and Douglas, A.H. Some trends of development in building materials; abstract. Chemical Age (London) v.30. p.252-253. March 24, 1934.

Lonberg-Holm, K. Luxfor glass prism constructions. Architectural Record. v.69. p.59-62. January 1931.

----- Materials, products and finishes. Architectural Record. v.71. p.62. January 1932.

McCalmon, J.R. Experimental results with rammed earth construction. Agricultural Engineering. v.15. p.387. November 1934.

Mains, G.H. Laminated plasters with a metal base provide new material of construction. Plastics. v.8. p.202-204. May 1932.

Miller, T.A.H. Rammed earth walls for buildings. U.S. Department of Agriculture, Farmers' Bulletin no. 1500. 25p. 1926.

----- Adobe or sun-dried brick for farm buildings. U.S. Department of Agriculture. Farmers' Bulletin no. 1720. 18p. 1934.

Mills, A.P. Materials of construction. 4th edition. N.Y., John Wiley and sons, 1931. 423 p.

Moore, H.F. Textbook of the materials of engineering. 4th edition. N.Y., McGraw-Hill Book Co., 1930. 409 p.

Naphtali, M. Metallization of wood opens new uses. Chemical and Metallurgical Engineering. v.39. p.269. May 1932.

Nowman, J.B. Architect and new materials. Architectural Forum. v.60. p.404. June 1934.

North, A.T. Trial of fireproof wood. Architectural Forum. v.54. p.247-252. February 1931.

Norton, G.T.K. New features for home building. House and Garden. v.61. p.68+ May 1932.

Owings, N.A. New materials and building methods for Chicago exposition. Architectural Record. v.71. p.279-288+ April 1932.

Peretti, T. L'impiego della Paglia nello costruzioni edili. (Use of straw in building construction.) Ingegnere. v.4. p.382-389. June 1930. Properties of solonite as determined by series of tests made in Paris; economics of sclerite construction; structural details of houses illustrating uso of solonite.

Perry, T.D. Plywood; product of unusual possibilities. Mechanical Engineering. v.54. p.618-622,666. September 1932. Advantages; modern wood adhesives; artistic and utilitarian applications of plywood; useful plywood combinations; durability of wood; wood substitutes; plywood costs.

Rack, E.C. Building material to resist corrosive atmospheres; U.S. industrial chemical company plant. Chemical and Metallurgical Engineering. v.38. p.157. March 1931.

Rogers, T.S. New building methods and products for 1933. Good Housekeeping. v.96. p.55+. January 1933.

----- Style trends in construction materials. Country Life. v.55. p.70-76. April 1929.

Rogier, G. Ein neuer Baustoff, "Stroh". (New building material made of straw.) Deutsche Bauzeitung. v.64, no.8. p.12-14. January 25, 1930. Properties of solonite; methods of construction adapted for its use; examples of use of solonite in houses and industrial steel-frame structures in Germany.

Schmausor, J. Superior refractory building material. Tonindustrie-Zeitung. v.56. p.1123-1124. 1932. Slag, obtained in the preparation of ferrochrome, is used for making siemensit.

Schmitt, F.E. Construction challenges chemical engineering talents. Chemical and Metallurgical Engineering. v.40. p.23-26. January 1933.

Shorman, R.W. New materials and methods in country house construction. Architectural Forum. v.58. p.225-234. March 1933.

Sponcer, C.W. Travertine and its imitation. Architectural Forum. v.53. p.247-252. August 1930.

Spurr, H.V. Structural progress. Architectural Forum. v.60. p.405-422. June 1934.

Steiner, W.G. New fields for laminated plastics; architectural and decorative uses. Plastics. v.8. p.65-55+ February 1932.

Swooney, O.R. and Enley, W.E. Manufacture of insulating board from corn stalks. U.S. Bureau of Standards. Miscellaneous Publication no. 112. 27 p. 1930.

Sweeney, O.R. and Winfrey, R. Production of synthetic lumber from corn-stalks. Mechanical Engineering. v.52. p.849-851. September 1930.

Teesdale, L.V. Modern wood prefabrication may lower cost of building. American Lubberman, no.3046. p.38-39. April 27, 1935.

Trayer, G.W. Data on structural use of plywood from two new test series, as a covering for frame walls and as the subfloor and ceiling of floor panels. Engineering News Record. v.113. p.172-176. August 9, 1934.

----- Plywood as a structural covering for frame walls and wall units. 1934. 15 p. mimeographed. Forest Products Laboratory, Madison, Wisconsin.

Truax, T.R. and Harrison, C.A. New test for measuring the fire resistance of wood. American Society for Testing Materials, Proceedings, v.29, part 2. p.973-989. 1929.

Turk, H. Porcelain enamel. Manufacturers Record. v.103. p.44. February 1934.

Verrill, A.H. Built of mud. Scientific American. v.143. p.110-111. August 1930.

Wells, J.B. Tests on nailed joints provide data on strengths. Engineering News Record. v.113. p.391-392. September 27, 1934.

Whittier, C.C. Heraldng the nonmetallic mineral age. Mining and Metallurgy. v.14. p.410-411. October 1933.

Williams, C.E. Manufacture of building materials from farm and forest waste a growing southern industry. Manufacturers Record. v.98. p.42-45. August 28, 1930.

